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United States
Department of
Agriculture

Forest Service

North Central
Forest Experiment
Station

Research Note NC-365

1994

Pulpwood Production in the Lake States, 1992

Ronald L. Hackett[1]

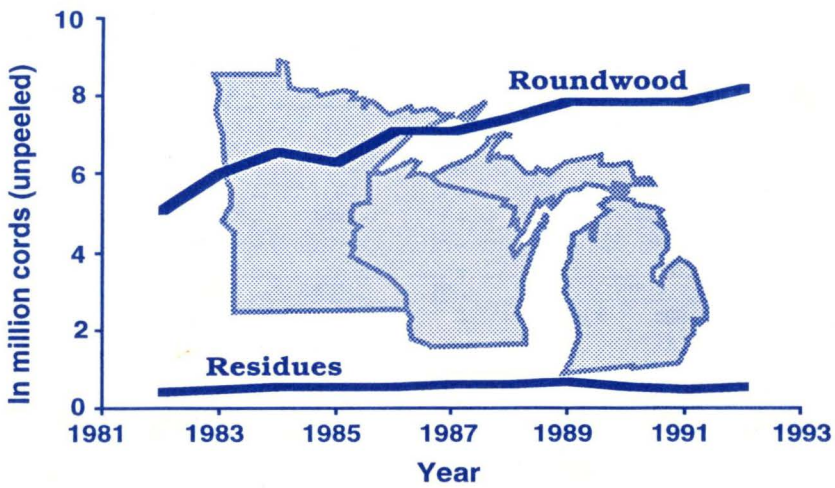
ABSTRACT.—Pulpwood production in the Lake States increased to 8.8 million cords in 1992. Michigan, Minnesota, and Wisconsin pulpwood production is shown by county and species group.

KEY WORDS: Roundwood, residue, Minnesota, Michigan, Wisconsin.

Pulpwood production[2] in the Lake States-Michigan, Minnesota, and Wisconsin-increased to 8.8 million cords in 1992 from 8.6 million cords in 1991. Wisconsin produced 3.3 million cords, Michigan produced 2.9 million cords, and Minnesota produced 2.6 million cords.

Major species harvested were aspen (4.2million cords), pine (1.2 million cords), maple (1 million cords), birch (515 thousand cords), and other hardwoods (461 thousand cords).

Counties harvesting more than 150 thousand cords each were Dickinson, Iron, Marquette, and Ontonagon in Michigan; Koochiching, St. Louis, Beltrami, Cass, and Itasca in Minnesota; and Marinette, Oneida, Vilas, and Bayfield in Wisconsin. These 13 counties contributed 39 percent of the pulpwood production from roundwood in the Lake States in 1992.



Ninety-two percent of the pulpwood produced came from roundwood (including chips from roundwood); the remainder came from mill residue such as slabs, edgings, veneer cores, and chips from these materials. Production from softwood and hardwood residue by State was:

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[2] Includes logs, bolts, and wood residue used in manufacturing particleboard, waferboard, oriented strand board, and medium density fiberboard.

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Residues

State	Softwood	Hardwood
	(Hundred standard cords, unpeeled)	
Michigan	737	1,541
Minnesota	272	601
Wisconsin	628	2,350

Whole Tree Chips

Whole tree chip (WTC) production in the Lake States was 559 thousand cords, 9 percent more than in 1991 and 6 percent of total pulpwood output in 1992. Michigan was the major WTC producer with 361 thousand cords, followed by Minnesota with 133 thousand cords and Wisconsin with 66 thousand cords.

Table 1.--Lake States pulpwood production from roundwood by county and species group, 1992
(In standard cords, unpeeled)

MINNESOTA

Unit and County 1/	All species	Pine	Spruce	Balsam fir	Hemlock	Tamarack	Cedar	Aspen	Birch	Oak	Maple	Other hardwoods
ASPEN-BIRCH												
Carlton	42,250	1,206	2,007	9,735	--	54	--	21,641	6,144	--	821	641
Cook	72,330	52	11,832	5,408	--	15	--	54,119	904	--	--	--
Koochiching	375,814	7,093	48,665	24,996	--	609	--	262,155	--	--	--	32,296
Lake	98,244	12,558	14,182	13,002	--	104	--	49,179	7,547	--	--	1,674
St. Louis	540,358	27,709	38,639	50,735	--	109	--	394,868	3,214	--	2,712	22,371
Total	1,128,996	48,619	115,326	103,875	--	892	--	781,962	17,809	--	3,533	56,980
NORTHERN PINE												
Aitkin	101,916	802	841	5,552	--	--	--	89,680	576	--	2,180	2,286
Becker	110,429	1,080	2	731	--	--	--	105,656	--	--	--	2,960
Beltrami	166,922	8,360	3,373	11,685	--	350	--	140,016	--	--	--	3,139
Cass	187,839	9,058	1,392	5,124	--	--	--	163,484	2,691	--	--	6,089
Clearwater	69,809	2,060	868	2,070	--	60	--	63,864	--	--	--	888
Crow Wing	72,859	4,178	38	545	--	--	--	68,018	80	--	--	--
Hubbard	96,629	4,033	213	491	--	--	--	89,505	20	--	--	2,368
Itasca	410,621	9,155	19,643	53,059	--	--	--	307,465	2,945	--	3,896	14,458
Lake of the Woods	40,204	15,719	2,803	2,126	--	98	--	18,943	--	--	--	514
Mahnomen	13,390	--	--	--	--	--	--	13,242	--	--	--	148
Roseau	20,759	12,960	1,142	24	--	--	--	6,119	--	--	--	514
Wadena	8,053	770	--	--	--	--	--	7,283	--	--	--	--
Total	1,299,430	68,175	30,313	81,407	--	508	--	1,073,275	6,312	--	6,076	33,363
CENTRAL HARDWOOD												
Benton	392	--	--	--	--	--	--	392	--	--	--	--
Chisago	8	--	--	--	--	--	--	8	--	--	--	--
Isanti	1,739	1,421	14	--	--	--	--	303	--	--	--	--
Kanabec	11,583	31	--	--	--	--	--	11,470	--	--	--	82
Mille Lacs	39,231	14,153	14	34	--	--	--	25,030	--	--	--	--
Morrison	9,280	--	22	--	--	--	--	9,259	--	--	--	--
Otter Tail	3,836	--	--	--	--	--	--	3,836	--	--	--	--
Pine	67,440	2,959	590	1,698	--	--	--	57,376	928	--	2,135	1,755
Sherburne	1,014	993	21	--	--	--	--	--	--	--	--	--
Stearns	293	--	--	--	--	--	--	293	--	--	--	--
Todd	1,677	--	--	--	--	--	--	1,677	--	--	--	--
Total	136,493	19,558	660	1,732	--	--	--	109,643	928	--	2,135	1,837
PRAIRIE												
Marshall	1,934	--	--	--	--	--	--	1,934	--	--	--	--
Norman	3,771	--	--	--	--	--	--	3,771	--	--	--	--
Pennington	4,395	--	--	--	--	--	--	4,395	--	--	--	--
Polk	5,007	--	--	--	--	--	--	5,007	--	--	--	--
Red Lake	4,855	--	--	--	--	--	--	4,825	--	--	--	29
Sibley	132	132	--	--	--	--	--	--	--	--	--	--
Total	20,094	132	--	--	--	--	--	19,933	--	--	--	29
STATE TOTAL	2,585,013	136,483	146,299	187,014	--	1,400	--	1,984,813	25,050	--	11,744	92,209

(Table 1 continued on next page)

(Table 1 continued)

MICHIGAN

Unit and County 1/	All species	Pine	Spruce	Balsam fir	Hemlock	Tamarack	Cedar	Aspen	Birch	Oak	Maple	Other hardwoods
E. UPPER PENINSULA												
Alger	98,199	15,356	1,913	6,815	3,164	582	609	16,495	7,261	688	33,776	11,535
Chippewa	97,567	23,325	3,439	4,779	2,090	366	374	35,538	3,699	147	11,532	12,279
Delta	141,829	24,063	4,220	7,414	3,623	660	619	41,865	12,282	774	34,242	12,069
Luce	64,252	11,775	2,724	4,008	1,572	276	286	17,441	4,413	351	13,188	8,218
Mackinac	88,516	8,849	4,707	4,864	1,534	259	288	25,531	10,595	308	18,332	13,250
Menominee	110,065	11,137	4,372	5,250	1,922	542	345	41,364	16,841	727	19,381	8,185
Schoolcraft	119,975	33,987	4,395	10,712	4,515	970	932	21,647	6,395	472	25,826	10,124
Total	720,404	128,491	25,770	43,843	18,420	3,655	3,453	199,881	61,486	3,467	156,276	75,663
W. UPPER PENINSULA												
Baraga	79,896	7,373	973	1,389	710	128	116	27,433	6,860	1,038	26,280	7,597
Dickinson	165,224	23,870	7,035	7,748	3,488	851	637	74,793	15,237	485	21,175	9,906
Gogebic	64,791	2,222	1,207	1,045	735	36	--	20,309	1,957	1,206	29,754	6,320
Houghton	98,445	9,293	3,625	2,887	853	199	109	25,380	7,143	1,041	37,591	10,323
Iron	157,561	5,733	10,192	4,362	959	237	85	45,704	17,767	1,980	58,320	12,222
Keweenaw	9,988	2,549	240	10	--	--	--	1,679	419	133	4,483	475
Marquette	350,780	69,266	17,203	17,802	11,121	1,877	1,540	85,767	30,284	2,113	84,394	29,413
Ontonagon	174,538	4,333	2,881	1,001	478	64	--	85,653	6,812	2,848	49,537	20,929
Total	1,101,223	124,639	43,357	36,244	18,344	3,391	2,487	366,719	86,479	10,843	311,532	97,188
N. LOWER PEINISULA												
Alcona	48,162	4,019	15	60	1	--	8	32,478	3,978	528	4,765	2,311
Alpena	24,301	308	--	--	--	--	--	18,530	2,151	--	2,142	1,171
Antrim	5,944	930	--	--	--	--	--	3,867	169	--	753	224
Arenac	16,124	254	--	--	--	--	--	11,463	608	759	2,340	700
Bay	399	--	--	--	--	--	--	124	--	--	275	--
Benzie	3,803	--	--	--	--	--	--	2,787	162	62	597	196
Charlevoix	6,952	118	--	--	--	--	--	1,951	779	4	3,667	432
Cheboygan	56,791	7,602	553	1,218	8	--	85	31,041	3,736	1,368	9,827	1,355
Clare	34,451	1,675	--	--	--	--	--	24,520	264	3,257	4,207	529
Crawford	31,236	14,657	--	--	--	--	--	9,655	1,004	2,698	2,989	232
Emmet	16,748	251	83	343	4	--	43	8,862	1,555	--	5,190	417
Gladwin	26,112	570	--	--	--	--	--	21,326	634	91	3,400	91
Grand Travers	11,455	3,267	--	--	--	--	--	4,639	231	1,083	1,725	511
Iosco	13,784	900	--	--	--	--	--	9,530	960	9	2,018	366
Isabella	12,535	631	--	--	--	--	--	10,764	72	--	1,067	--
Kalkaska	25,314	10,445	--	--	--	--	--	10,403	546	461	3,291	168
Lake	35,435	3,799	--	--	--	--	--	18,703	249	7,810	3,845	1,028
Leelanau	2,255	--	--	--	--	--	--	1,229	325	146	162	394
Manistee	21,674	290	--	--	--	--	--	8,953	305	3,420	5,478	3,229
Mason	17,878	65	--	--	--	--	--	12,465	545	2,344	1,799	661
Mecosta	18,405	79	--	--	--	--	--	14,055	390	1,375	1,968	539
Midland	9,895	--	--	--	--	--	--	8,359	248	341	823	124
Missaukee	34,876	2,256	--	--	--	--	--	23,623	333	1,810	6,127	727
Montmorency	36,470	4,769	6	26	--	--	3	23,538	2,473	1,342	3,376	937
Newaygo	29,937	177	--	--	--	--	--	20,928	213	4,805	3,333	483
Oceana	11,463	--	--	--	--	--	--	7,170	69	3,176	866	180
Ogemaw	18,464	757	--	--	--	--	--	11,834	1,448	1,783	2,079	563
Osceola	32,152	229	--	--	--	--	--	23,653	805	1,538	4,981	946
Oscoda	44,515	26,755	--	--	--	--	--	12,158	892	1,736	2,315	660
Otsego	49,342	10,725	--	--	--	--	--	19,927	2,426	--	14,618	1,645
Presque Isle	45,795	5,752	477	959	5	--	58	24,541	6,600	330	4,968	2,105
Roscommon	27,377	6,763	--	--	--	--	--	15,815	511	1,197	2,993	96
Wexford	18,240	2,115	--	--	--	--	--	11,062	112	1,136	2,742	1,073
Total	788,281	110,153	1,134	2,606	19	--	197	459,952	34,792	44,609	110,725	24,096
S. LOWER PENINSULA												
Allegan	13,368	--	--	--	--	--	--	2,104	--	8,180	3,084	--
Barry	721	--	--	--	--	--	--	656	2	--	63	--
Calhoun	667	--	--	--	--	--	--	--	--	645	22	--
Cass	1,462	--	--	--	--	--	--	--	--	1,434	29	--
Gratiot	21	--	--	--	--	--	--	21	--	--	--	--
Ionia	1,051	--	--	--	--	--	--	2	--	430	356	263
Kent	2,511	--	--	--	--	--	--	171	2	1,383	953	2
Lenawee	273	--	--	--	--	--	--	100	--	--	173	--
Montcalm	6,339	122	--	--	--	--	--	1,903	18	3,137	837	322
Muskegon	6,966	--	--	--	--	--	--	1,367	13	5,136	360	90
Ottawa	506	--	--	--	--	--	--	231	5	215	55	--
St Joseph	2,623	--	--	--	--	--	--	--	--	1,778	845	--
Van Buren	2,623	--	--	--	--	--	--	--	--	1,778	845	--
Total	39,131	122	--	--	--	--	--	6,555	40	24,116	7,621	677
STATE TOTAL	2,649,039	363,406	70,260	82,693	36,783	7,046	6,137	1,033,106	182,798	83,034	586,155	197,622

(Table 1 continued on next page)

(Table 1 continued)

WISCONSIN

Unit and County 1/	All species	Pine	Spruce	Balsam fir	Hemlock	Tama-rack	Cedar	Aspen	Birch	Oak	Maple	Other hardwoods
NORTHEAST												
Florence	84,125	3,000	2,647	2,785	3,190	--	--	40,449	10,176	1,206	16,375	71,396
Forest	124,689	7,034	4,625	6,223	1,531	386	--	37,617	18,334	4,015	32,404	94,287
Langlade	119,888	7,377	1,144	3,565	1,000	308	--	51,872	14,142	3,687	26,021	97,030
Lincoln	114,427	9,104	926	2,074	591	292	--	58,035	11,285	5,978	13,804	89,985
Marinette	161,180	40,228	2,185	4,374	150	534	2	67,541	14,401	1,326	25,299	109,253
Menominee	62,649	10,888	57	200	13,008	23	12	14,816	3,510	2,800	13,867	48,036
Oconto	75,733	19,565	103	554	125	15	--	33,764	7,650	656	10,721	52,931
Oneida	174,658	23,457	4,022	4,758	684	468	--	60,068	25,546	10,844	26,233	123,843
Shawano	30,393	3,923	223	49	953	23	--	16,766	1,828	817	4,566	24,953
Vilas	169,373	17,412	2,041	4,251	295	169	--	70,985	39,491	3,062	22,158	136,160
Total	1,117,115	141,983	17,973	28,832	21,527	2,219	14	451,914	146,364	34,392	191,445	847,875
NORTHWEST												
Ashland	89,245	12,008	4,695	5,306	545	253	--	29,541	10,566	3,938	17,034	61,877
Barron	30,595	5,354	302	13	32	--	--	18,757	2,312	709	2,301	24,111
Bayfield	197,244	51,984	1,662	2,273	66	78	--	97,182	25,381	2,407	11,834	136,948
Burnett	67,449	36,375	22	78	--	--	--	26,482	1,952	182	1,926	30,542
Douglas	130,285	46,380	900	6,892	24	--	--	56,624	12,228	224	5,314	74,414
Iron	137,983	6,959	5,400	7,220	2,157	297	202	67,574	10,339	4,758	23,792	109,119
Polk	15,545	3,200	15	13	--	--	--	9,730	565	226	1,562	12,083
Price	124,080	7,772	3,247	4,914	987	693	--	56,182	16,014	5,602	16,372	95,850
Rusk	98,771	3,018	754	265	304	363	--	37,621	15,936	6,846	24,209	85,279
Sawyer	131,694	7,273	1,748	2,296	298	483	--	54,612	24,150	4,837	24,918	109,298
Taylor	86,429	818	673	2,339	1,016	134	--	49,834	6,615	2,047	13,984	73,630
Washburn	91,604	22,581	278	317	13	--	--	50,308	7,853	831	6,437	65,442
Total	1,200,925	203,724	19,695	31,924	5,441	2,301	202	554,448	133,912	32,605	149,683	878,592
CENTRAL												
Adams	77,044	69,922	23	--	--	--	--	1,829	600	3,168	981	6,578
Chippewa	62,287	3,274	141	46	86	11	--	37,108	5,468	3,455	8,526	54,654
Clark	85,035	6,800	--	--	--	66	--	48,999	7,795	2,248	14,216	73,324
Eau Claire	36,534	18,973	34	--	12	--	--	10,845	1,643	735	3,090	16,325
Jackson	68,697	42,121	89	12	--	42	--	16,544	2,532	1,166	5,184	25,468
Juneau	33,619	28,646	24	--	--	--	--	707	561	1,322	1,885	4,475
Marathon	63,890	8,120	895	228	1,137	--	--	31,249	3,296	2,071	10,271	48,024
Marquette	13,381	12,709	24	7	--	--	--	--	84	172	276	532
Monroe	18,232	15,595	88	6	--	--	--	547	572	171	824	2,114
Portage	28,023	17,037	110	11	244	29	--	5,849	813	448	2,350	9,733
Waupaca	24,132	12,157	105	50	486	--	--	6,759	456	522	3,008	11,231
Waushara	30,950	28,723	38	--	--	--	--	1,334	135	273	328	2,070
Wood	31,834	11,889	49	4	44	19	--	13,475	1,291	555	3,661	19,045
Total	573,656	275,965	1,618	364	2,008	167	--	175,246	25,248	16,308	54,601	273,578
SOUTHWEST												
Buffalo	5,473	2,572	85	--	--	--	--	2,588	62	23	115	2,788
Crawford	22	11	--	--	--	--	--	--	--	--	10	10
Dunn	26,782	14,882	73	25	--	19	--	9,103	608	513	1,041	11,284
Grant	167	153	--	--	--	--	--	14	--	--	--	14
Iowa	2,499	2,499	--	--	--	--	--	--	--	--	--	--
La Crosse	2,875	2,336	100	--	--	--	--	23	113	43	208	387
Lafayette	30	30	--	--	--	--	--	--	--	--	--	--
Pepin	1,587	914	11	26	--	--	--	636	--	--	--	636
Pierce	505	184	22	--	--	--	--	292	--	--	4	296
Richland	439	402	--	--	--	--	--	--	2	14	20	36
Sauk	12,136	11,460	184	12	7	--	--	9	63	24	346	449
St. Croix	15,267	1,809	86	14	--	--	--	13,196	131	--	18	13,345
Trempealeau	13,226	9,802	131	--	--	--	--	2,676	140	82	273	3,171
Vernon	245	245	--	--	--	--	--	--	--	--	--	--
Total	81,252	47,299	693	77	7	19	--	28,537	1,122	698	2,034	32,417
SOUTHEAST												
Brown	4,660	174	--	--	--	--	--	3,850	18	19	155	4,042
Columbia	6,552	6,255	81	--	--	--	--	88	26	24	65	203
Dane	568	382	10	--	--	--	--	--	48	17	88	153
Dodge	54	54	--	--	--	--	--	--	--	--	--	--
Door	110	26	--	--	--	--	--	55	2	--	24	81
Fond Du Lac	357	308	--	--	--	--	--	4	4	--	28	36
Green	646	624	--	--	--	--	--	--	6	2	12	20
Green Lake	1,302	1,221	--	--	--	--	--	14	12	16	31	73
Jefferson	2,147	2,147	--	--	--	--	--	--	--	--	--	--
Kenosha	38	13	--	11	--	--	--	14	--	--	--	14
Kewaunee	42	34	--	--	--	--	--	--	1	--	6	7
Manitowoc	330	36	17	--	9	--	--	--	27	--	214	250
Milwaukee	20	20	--	--	--	--	--	--	--	--	--	--
Outagamie	3,187	164	--	--	--	--	--	1,819	235	115	692	2,861
Ozaukee	69	59	--	9	--	--	--	--	--	--	--	--
Rock	2,066	2,035	31	--	--	--	--	--	--	--	--	--
Sheboygan	227	227	--	--	--	--	--	--	--	--	--	--
Walworth	55	55	--	--	--	--	--	--	--	--	--	--
Washington	69	54	16	--	--	--	--	--	--	--	--	--
Waukesha	2,984	2,594	390	--	--	--	--	--	--	--	--	--
Winnebago	155	--	--	--	--	--	--	28	32	15	63	138
Total	25,636	16,480	545	20	9	--	--	5,871	412	210	1,379	7,881
STATE TOTAL	2,998,584	685,452	40,524	61,217	28,992	4,706	216	1,216,016	307,056	84,212	399,142	171,051
TOTAL LAKE STATE	8,232,636	1,185,340	257,083	330,923	65,775	13,152	6,353	4,233,936	514,904	167,246	997,042	460,882

1/ Includes only those counties that supplied pulpwood in 1992.

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